

CLAIMS

- 1) A detachable level lift trailer system comprising:
 - a) A cargo bed which may be loaded while sitting on the ground, separated from a trailer, said cargo bed having mechanism for being engaged by said trailer, and
 - b) Said trailer comprising an open center frame structure, said trailer having mechanism for engaging and level lifting said cargo bed.
- 2) The detachable level lift trailer system of claim 1, wherein
 - a) Said cargo bed which was loaded while sitting on the ground separated from said trailer, said cargo bed having at least four inclined channel tracks disposed to the four outside corners of the side walls, said tracks sized for lift rollers, and
 - b) Said trailer with an open center frame structure, leaf spring suspended on quarter axels with pneumatic tires, said axels do not cross the trailer frame, said frame having at least four lift rollers disposed to its opposite inside side corners, said rollers at the open end of the trailer are vertically offset higher than the rollers at the closed head end of the trailer, for engaging said inclined channel tracks on said cargo bed, and for
 - c) A horizontal pull hydraulic cylinder coupling said trailer and said cargo bed, for level lifting of said cargo bed by pulling it up said inclined channel tracks of said cargo bed to a transport height, to be carried and consequently deposited at another location.
- 3) The trailer system of claim 2, wherein spring loaded pin locks across two of said cargo bed's inclined channel tracks retain the cargo bed in an up position, independent of a hydraulic cylinder pressure.
- 4) The trailer system of claim 2, alternately wherein the lift rollers of the trailer are mounted at the same vertical level, both at the open back end and the closed front end of said trailer.

5) A cargo bed for use with a level lift trailer system, having at least four inclined lift channel tracks angled substantially at 45 degrees, each parallel to one another and mounted at each outside corner of said cargo bed, each with a horizontal channel extensions disposed to said cargo bed sides, purposed to receive and guide said trailer's lift rollers from the head end of the cargo bed and extending to the upper ends of said angled lift channels.

6) The cargo bed of claim 5, wherein the channel extensions are flared vertically to have larger openings at the head end of the bed, than at the channel end, to facilitate eased engagement by the rollers of said trailer, when either are on uneven ground.

7) The cargo bed of claim 5, alternately wherein one horizontal channel extension is disposed to either outside side of said cargo bed, purposed to receive and guide a trailer's single level lift rollers, extending from the head end of said cargo bed and connecting to two of the upper ends of said angled lift channel tracks angled at 45 degrees.

8) The cargo bed of claim 5, wherein non-highway use utility casters facilitate the placement of said cargo bed whether loaded or nonloaded, independent of said trailer.